

The Impact of a Smart Distribution Grid on Transmission



imagination at work

CA Energy Challenges

- Meeting growing demand
- Managing reliability challenges
- Upgrading and expanding electrical infrastructure

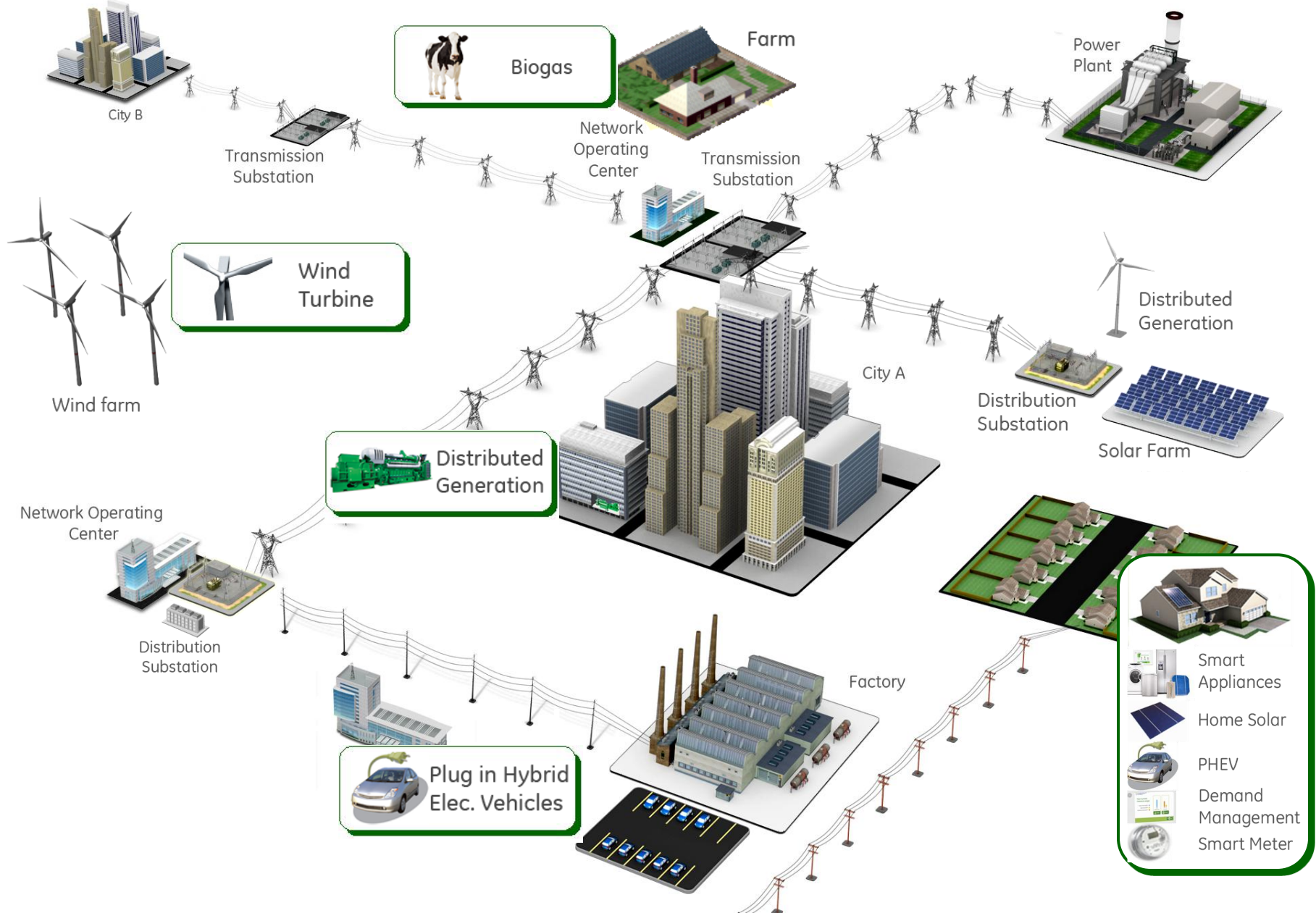


Progress is being made

- Growth of renewables
- Plans for distributed generation
- Smart grid deployments
- Plug-in vehicles on the horizon

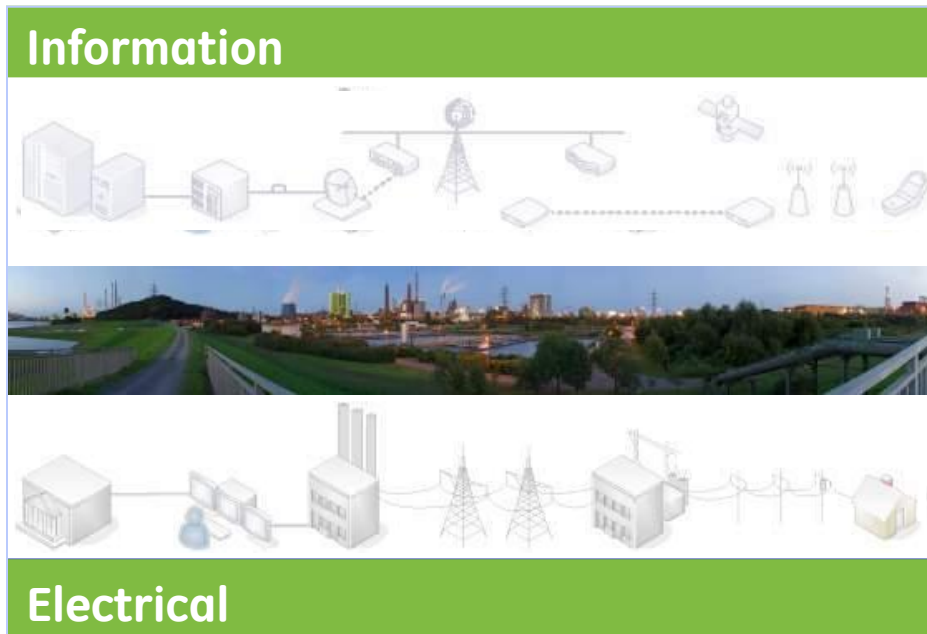


With progress, comes complexity



Managing complexity with a smarter grid

The integration of two infrastructures



Step 1: Dedicated distribution Supervisory Control and Data Acquisition system (SCADA)

Step 2: Distribution Management System (DMS) applications

Step 3: Integration of the DMS with the Energy Management System (EMS)

Step 4: Enterprise Information Technology architecture